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PAPERS READ BEFORE THE SOCIETY FROM MARCH 1900 TO JANUARY 1901.

1900.

Mar. 9. Observations of the *Leonids*, 1899. C. Michie Smith.

Photographic observations of Hind's variable Nebula in *Taurus*, made with the Crossley reflector of the Lick Observatory. J. E. Keeler.

Ephemeris for physical observations of the Moon for the second half of 1900. A. C. D. Crommelin.

Note on a possible occultation of *A Geminorum* by *Venus*, 1900 May 27–28. W. W. Bryant.

The maximum duration possible for a total solar eclipse. C. T. Whitmell.

The use of a coloured screen in photographing the corona during an eclipse. W. Shackleton.

On a simple method of comparing the Bonn Durchmusterung with photographic plates. H. H. Turner.

Graphical method for the determination of the local times of contact in a solar eclipse. F. C. Penrose.

Observations of *Saturn* made at Juvisy Observatory in 1899. C. Flammarion.

Apr. 11. On stationary radiants of meteors: reply to the criticisms of M. Brédikhine. H. H. Turner.

On the binary system of *Capella*. H. F. Newall.

Observations of spots and markings on the planet *Jupiter* made at the Dearborn Observatory of North-Western University, Evanston, U.S.A. G. W. Hough.

On the orbit of β 883. T. Lewis.

The effects of stellar rotation upon spectrum lines. A. Fowler.

The equatorial current of *Jupiter* in 1898. A. Stanley Williams.

On the alleged rotation of the spiral nebula *Messier* 51, *Canum Venaticorum*. H. H. Turner.

Observations of the *Leonids* made at the Cambridge Observatory on 1899 November 13, 14, 15. A. R. Hinks.

Measures of double stars from photographs taken with the 26-inch refractor of the Thompson equatorial at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

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April 11. Cometary observations at the Liverpool Observatory. W. E. Plummer.

An application of projective geometry to binary star orbits. H. C. Plummer.

Results of micrometer measures of double stars made with the 28-inch refractor at the Royal Observatory, Greenwich, in the year 1899. Communicated by the Astronomer Royal.

May 11. Observations of Minor Planets at Windsor, New South Wales. John Tebbutt.

The duration of the greater Sun-spot disturbances for the years 1881–99. Rev. A. L. Cortie.

Note on measures by Professor Barnard of two standard points on the Moon's surface. S. A. Saunder.

Micrometer measures of double stars. William Coleman.

On planning photographic observations of *Eros*. A. R. Hinks.

June 8. Note on a meteoric shower south of *Corvus*. W. F. Denning.

Theory of the motion of the Moon : Part III. Chapter VI. E. W. Brown.

The partial eclipse of the Sun, 1900 May 28, observed at Stonyhurst College Observatory. Rev. W. Sidgreaves.

The partial eclipse of the Sun, 1900 May 28, observed at Norwich. G. J. Newbegin.

Remarks on the total eclipse of the Sun, 1900 May 28, observed at Navalmoral, Spain. Rev. S. J. Johnson.

Inquiry as to the cause of the shadow bands upon the Earth which accompany total eclipses of the Sun. G. Johnstone Stoney.

The partial eclipse of the Sun, 1900 May 28, observed at Armagh. J. L. E. Dreyer.

The partial eclipse of the Sun, 1900 May 28, observed at Forest Lodge, Maresfield. Capt. W. Noble.

The partial eclipse of the Sun, 1900 May 28, observed at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

Notes on the total eclipse of the Sun, 1900 May 28, observed at Algiers. E. W. Maunder and A. C. D. Crommelin.

Observations of *Capella* as a double star made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Description of the Durham Almucantar. R. A. Sampson.

Nov. 9. Ephemeris of *Eros*. Frank Robbins.

The partial eclipse of the Sun, 1900 May 28, observed at Col. Cooper's Observatory, Markree. F. W. Henkel.

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Nov. 9. A possible explanation of the Sun-spot period. E. W. Brown.

Discovery and observations of Comet Brooks (*b* 1900). W. R. Brooks.

Nebulæ discovered at the Chamberlin Observatory, University Park, Colorado. H. A. Howe.

Observations of nebulæ made at the Chamberlin Observatory, University Park, Colorado. H. A. Howe.

Note on the formulæ for star corrections. P. H. Cowell.

Observations of the phenomena of *Jupiter's* satellites at Windsor, New South Wales, in the years 1898 and 1899. John Tebbutt.

Note on the accuracy of the star charts published by the French Observatories as reproductions of their plates for the Astrographic Chart. H. H. Turner.

On the appearance of *Saturn's* crape ring in 1900. E. M. Antoniadi.

Observations of *Jupiter* and his satellites made at Mr. Crossley's Observatory, Bermerside, Halifax, during the opposition 1899–1900. Joseph Gledhill.

Photographic measures of the Ring Nebula in *Lyra* and of the neighbouring faint stars. F. P. Leavenworth.

Ephemeris for physical observations of the Moon for 1901. A. C. D. Crommelin.

Note on the Moon's eclipse diameter. A. C. D. Crommelin.

The occultation of *Saturn*, 1900 September 3. Rev. S. J. Johnson.

On the disappearance from photographic films of star images, and their recovery by the aid of a chemical process. Isaac Roberts.

Note on the total eclipse of the sun, 1900 May 28, observed at Algiers. Rev. C. D. P. Davies.

Micrometric measures of the diameter of *Neptune* and distance and position-angle of the satellite, made with the 28-inch refractor at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

Corrections to the Armagh Catalogue for 1840. J. L. E. Dreyer.

Occultations of *Saturn*, 1900 June 13 and September 3, observed at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.

Mean areas and heliographic latitudes of Sun-spots in the year 1899, deduced from photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn (India), and in Mauritius. Communicated by the Astronomer Royal.

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1900.
Nov. 9. On the variable velocity of α Persei. H. F. Newall.
On the near approach of the planet *Eros* to a star (BD + 48°, 759). F. A. Bellamy.
Dec. 14. On the connection between solar spots and earth magnetic storms. Rev. W. Sidgreaves.
Watch for the *Leonids*, 1900, at Markree Observatory. F. W. Henkel.
The diameter of the asteroid *Juno* (3), determined with the micrometer of the 40-inch refractor of the Yerkes Observatory; with remarks on some of the other asteroids.
The *Leonids*, 1900 November 14: observations made at Blackheath. E. M. Antoniadi and A. C. D. Crommelin.
The *Leonids*, 1900; observations at the University Observatory, Oxford. H. H. Turner.
Ephemeris for physical observations of *Jupiter*, 1901. A. C. D. Crommelin.
ζ *Herculis*. T. Lewis.
On the magnitude of the wide companion of ζ *Lyræ*. Rev. S. J. Johnson.
The *Leonids*, 1900; observations made at the Radcliffe Observatory, Oxford. Communicated by the Radcliffe Observer.
On observations of *Capella* as a double star made at the Royal Observatory, Greenwich. W. H. M. Christie.

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Jan. 11. Observations of the *Leonid* meteors of 1900, made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.
On mechanically compensating the rotation of the field of a siderostat. H. H. Turner.
On the accuracy of eye observations of meteors, and the determination of their radiant points. Bryan Cookson.
Leonids observed at Cambridge Observatory, 1900 November 13, 14, 15. J. C. W. Herschel.
On a method of reducing occultations of stars by the Moon; together with the reduction of occultations observed on three occasions at the Liverpool Observatory. H. C. Plummer.
Observations of *Saturn* made at Juvisy Observatory in 1900. C. Flammarion.
Note on the rotation period of *Saturn* in 1896 and 1897. C. Flammarion.
The light curve of *S Aræ*. A. W. Roberts.

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Jan. 11. Observations of occultations of stars and *Saturn* by the moon made at the Royal Observatory, Greenwich, in the year 1900. Communicated by the Astronomer Royal.

Observations of the solar eclipse of 1900 May 28, made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.